

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7477907	radio near transmission or transmi\$3 near different or multiple or pluralit\$3 or several code near process\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:21
L2	3257639	l1 and outer near cod\$3 and inner ner cod\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:18
L3	22	l2 and interleav\$3 near pattern near transmission	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:19
L4	51655	l2 and interleav\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:19
L5	6950	l4 and reed near solomon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:19
L6	6950	l5 and l4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:20
L7	21572	l6 and frequency near hopping or ofdm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:21

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L8	3550336	l7 and pluralit\$3 or multiple or several near outer near cod\$3 near each or subsequent or consecutive or successive near retransmission	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:23
L9	0	l8 and outer near decod\$3 near inner near code near parity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:24
L10	3572976	l8 parity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:24
L11	503428	l8 and concatenat\$3 or join or add near code near pluralit\$3 near outer near cod\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:26
L12	33075	l11 and modulat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:26
L13	2303	l12 and multiplex\$3 and radio near frequency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:27
L14	1412	l13 and demodulat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:27

## EAST Search History

L15	4590577	l14 and crc near append\$3 or add\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:27
L16	482	l14 and crc	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:27
L17	449	l16 and l15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:28
L18	9	l17 and buffer and turbo near decod\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 12:28

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outer code decoding for decoding the inner co

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**Patents** Patents 1 - 10 on **outer code decoding for decoding the inner code bits using outer code parity**

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Unequal error protection in coded modulation schemes

US Pat. 6031874 - Filed Sep 26, 1997 - Ericsson Inc.

An advantageous **decoding** procedure is described in more detail below, in which the **inner code** protects **bits** in each row of a memory array and the **outer code** ...

Punctured serial concatenated convolutional coding system and method for low ...

US Pat. 6202189 - Filed Dec 17, 1998 - Teledesic LLC

Puncturing the **parity bits** produced by the systematic **outer** and **inner** ...  
encoding said input data **bits** of information; (iv) **SISO outer decoding** said ...

Error correction encoding and decoding system

US Pat. 5546409 - Filed Jan 25, 1995 - Canon Kabushiki Kaisha

Then, an **outer code** encoding circuit 36 generates four **parity** check codes ...  
from the **inner code decoding** circuit 39 and **outer code decoding** circuit 43, ...

Encoding/decoding circuit, and digital video system comprising the circuit

US Pat. 5469448 - Filed Feb 8, 1994

The **inner code** has 8 **parity** symbols 30 and the **outer code** has 7 **parity** symbols.  
... can be used in parallel **using** the same addressing, the 8 **bits** presented ...

Method and apparatus for concatenated channel coding in a data transmission ...

US Pat. 6769089 - Filed Dec 24, 1999 - Ensemble Communications, Inc.

... (1) **decoding** the **inner code** generated in step (c) **using a parity-check code**  
... in **bits**; and (b) an **inner code** encoder, operatively coupled to the **outer** ...

Concatenated coding method and apparatus with errors and erasures decoding

US Pat. 5206864 - Filed Dec 4, 1990 - Motorola Inc.

In that case, **parity** was used as the **inner code**. ... Concatenated codes **using**  
Reed-Solomon **outer** codes and linear block codes or bit interleaving codes as ...

CONCATENATED BURST-TRAPPING CODES

US Pat. 3831143 - Filed Nov 26, 1971 - Computer Science Corporation

**Outer code:** a (112,84) **code** obtained by shortening a (127,99) BCH **code**: d=9, ...  
28 **bits** in guard space (336 / **bits**) A detailed **decoding** flow chart for the ...

Short block code for concatenated coding system

US Pat. 6374382 - Filed Dec 15, 1998 - Hughes Electronics Corporation

The method of claim 15 wherein **decoding** the **inner code** sequence comprises: adding  
a received **inner** codeword to each of a plurality of codewords selected ...

Encoding and decoding methods and apparatus

US Pat. 6298461 - Filed Jan 25, 1999 - Nortel Networks Limited

1 this disadvantage is avoided by serially concatenating an **outer code** with an **inner turbo code**. Referring to FIG. 1, the encoder comprises an **outer code** ...

Optical disk having radial lands and grooves, and boundary recognition marks ...

US Pat. 6301208 - Filed Dec 24, 1998 - Kabushiki Kaisha Toshiba

One **outer code parity** PO formed from 16 rows is interleaved in every 12 rows of ... correction **decoding** processor section 364 corrects an **inner code** error. ...

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outer code decoding for decoding the inner code

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